(REV. 9-2	D-1390 001)	U S DEPARTME	NT OF COMMERCE PATENT AN	ID TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER
				UNITED STATES	16673-6
				CE (DO/EO/US)	U.S. APPLICATION NO. (If known, see 37 CFR 1.5
				R 35 U.S.C. 371	10/049696
PCT,	'IB00/0			MONAL FILING DATE	PRIORITY DATE CLAIMED 10 September 1999
TITLE	OF INV	ENTION METHOD	AND SYSTEM FOR	TRANSMITTING MESSAGE	ES FOR DATABASE
APPLI	CANT(S	FOR DO/EO/US	Olivier B	RIQUE; Christophe NIC	OLAS; Marco SASSELLI
Applic	ant herev	vith submits to the Un	ited States Designate	d/Elected Office (DO/EO/US)	the following items and other information:
1. X	This is a	FIRST submission of	of items concerning a	filing under 35 U.S.C. 371.	
2.	This is	a SECOND or SUBSI	EQUENT submission	of items concerning a filing u	nder 35 U.S.C. 371.
3. X	This is a		egin national examin		71(f)). The submission must include
4. X	The US	has been elected by the	ne expiration of 19 m	onths from the priority date (A	rticle 31).
5. X	A copy	of the International A			
	а. (Д) b. П		equired only it not co ated by the Internation	ommunicated by the Internation	nal Bureau)
Lake .	о. П			ed in the United States Receiving	ng Office (RO/US)
	An Engl			al Application as filed (35 U.S.	
Ţ -	a. X	is attached hereto.			
† 0 _	Ъ. 🗌		submitted under 35		
(1, 1 <del>12</del> )				ication under PCT Article 19 (	
a n	a. [			communicated by the Internation	onal Bureau).
31	ь. Ц		cated by the Internat		
est.	c. $\square$			imit for making such amendme	ents has NOT expired.
U	d. X		and will not be made		
-8. []				s to the claims under PCT Artic	cle 19 (35 U.S.C. 371 (c)(3)).
9. X		or declaration of the			
¥o. □				the International Preliminary English language translation of the I	
Iten	ns 11 to 2	20 below concern do	cument(s) or inform	ation included:	
11. X	An Ini	formation Disclosure	Statement under 37 C	FR 1.97 and 1.98.	
12. 🛛	An ass	signment document fo	r recording. A separ	ate cover sheet in compliance v	with 37 CFR 3.28 and 3.31 is included.
13. X	A FIR	ST preliminary amen	dment.		
14.	A SEC	COND or SUBSEQUI	ENT preliminary ame	ndment.	
15.	A subs	titute specification.			
16.	A char	nge of power of attorn	ey and/or address let	ter.	
17.	A com	puter-readable form o	f the sequence listing	in accordance with PCT Rule	13ter.2 and 35 U.S.C. 1.821 - 1.825.
18. <u>X</u>	A seco	nd copy of the publis	hed international app	lication under 35 U.S.C. 154(d)	)(4).
19. X	A seco	nd copy of the Englis	h language translatio	n of the international application	on under 35 U.S.C. 154(d)(4).
20. 🗵	Other i	tems or information:	International	Search Report	
			International	Preliminary Examinat	ion Report
				The state of the s	
				135 (A) 13. (A)	

us. 10704	9696	INTERNATIONAL APPLICATION NO PCT/IB00/01259			ATTORNEYS DO	
	ing fees are subm			CAL	CULATIONS	PTO USE ONLY
BASIC NATIONAL	FEE (37 CFR 1.	492 (a) (1) - (5)):				
nor international se	arch fee (37 CFR	mination fee (37 CFR 1.482) 1.445(a)(2)) paid to USPTO prepared by the EPO or JPO	\$1040.00			
International prelin USPTO but Interna	ninary examination ational Search Rep	fee (37 CFR 1.482) not paid to cort prepared by the EPO or JPC	\$890.00			
International prelin but international se	ninary examination arch fee (37 CFR	fee (37 CFR 1.482) not paid to 1.445(a)(2)) paid to USPTO	USPTO \$740.00			
International prelin but all claims did no	ninary examination ot satisfy provision	s of PCT Article 33(1)-(4)	SPTO \$710.00			
International prelim	ninary examination	r fee (37 CFR 1.482) paid to USPCT Article 33(1)-(4)	SPTO \$100.00			
ENTE	R APPROPRI	ATE BASIC FEE AMO	UNT =	\$	890	
Surcharge of \$130.0 months from the ear	o for furnishing th liest claimed prior	e oath or declaration later than ity date (37 CFR 1.492(e)).	20 30	\$		
CLAIMS	NUMBER FILE	D NUMBER EXTRA	RATE	\$		
Total claims	14 - 20		x \$18.00	\$	0	
Independent claims	3 -3		x \$84.00	\$	0	
MULTIPLE DEPENI	DENT CLAIM(S)	(if applicable)	+ \$280.00	\$	280	
<b>*</b>	TOT	AL OF ABOVE CALCU	LATIONS =	\$	1,170	
Applicant claim are reduced by	s small entity stati 1/2.	is. See 37 CFR 1.27. The fees	indicated above +	\$		
Val			JBTOTAL =	\$	1,170	
Processing fee of \$1: months from the earl	30.00 for furnishir iest claimed priori	ig the English translation later the ty date (37 CFR 1.492(f)).	nan 20 30	\$		
		TOTAL NATIO	NAL FEE =	\$	1,170	
Fee for recording the accompanied by an a	enclosed assignm ppropriate cover s	ent (37 CFR 1.21(h)). The assi heet (37 CFR 3.28, 3.31). \$40.	gnment must be 0 per property +	\$	40	
å .		TOTAL FEES E	NCLOSED =	\$ 1	,210	
) )				Amou	nt to be efunded:	\$
<i>I</i>					charged:	\$
b. Please char A duplicate c. The Commi overpaymer d. Fees are to information  NOTE: Where an	ge my Deposit Accopy of this sheet ssioner is hereby at to Deposit Accope charged to a cr should not be incopprinte time	1,210 to cover the count No. in is enclosed. unthorized to charge any addition unt No. 23-3030 (but not is: edit card. WARNING: Informatuded on this form. Provide or limit under 37 CFR 1.494 or landed to restore the application of the country of	the amount of \$	copy of become and as	red, or credit a of this sheet is ne public. Cr athorization or	ny enclosed. edit card n PTO-2038.
SEND ALL CORRESPO Clifford W. B. Woodard, Emha: Bank One Cent 111 Monument Indianapolis, browning@world	rowning rdt, Naughto: er/Tower Circle, Suit Indiana 46		SIGNATURE Cliffo: NAME 32,201 REGISTRA	rd W.	Browning	my

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent	)	BOX PCT
application of:	)	
	)	
Olivier Brique et al.	)	
	)	
Corresponding to International Application	)	
No. PCT/IB00/01259	)	
	)	
Filed September 6, 2000	)	
	)	
METHOD AND SYSTEM FOR	)	
FRANSMITTING MESSAGES FOR	)	
DATABASE	)	February 15, 2002

## PRELIMINARY AMENDMENT

Assistant Commissioner for Patents Washington, DC 20231

Sir:

As a Preliminary Amendment to the above-referenced Application, please enter the following amendments prior to computing the filing fees therefore.

## IN THE CLAIMS:

Please amend claims 3, 4, 5, 9, 10, and 13 as follows:

# Express Mail Label No. EL916999859US

Date of Deposit: February 15, 2002

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR \$1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, DC 20231.

Signature of person mailing paper of fee

#### We claim:

- 3. Transmission process according to claims 1 or 2, characterized in that these databases are integrated in Pay-TV reception subscriber's units and that the useful data comprise the reception rights of a subscriber.
- 4. Transmission process according to claim 1, characterized in that these updating messages comprise a set of control-blocks comprising data and controls, and which consists in carrying out comparison operations between the data and the contents of the database and determine an action which consists, either to update the database, carry out the subsequent control block, or to jump to another control block, or to terminate the processing of the message.
- Transmission process according to claim 1, characterized in that the database is divided or is of the relational type RDB.
- 9. Transmission system of message according to claim 6, characterized in that these updating messages comprise control-blocks comprising data and of controls, said controls determining an action which consists, either to update the database, or to carry out the subsequent control block, or to jump to another control block, or to terminate the processing of the message.
- Transmission system of message according to claim 6, characterized in that the database is divided or is of relational type RDB.
- 13. Language interpreter evolved for database according to claim 12, characterized in that the database is connected to a Pay-TV subscriber module and that the action consists in returning a message towards the subscriber module for carrying out an action in said subscriber module.

#158550

# REMARKS

Attached hereto are pages 4-5 that present a marked up version of the changes made to the claims by this preliminary amendment. Page 4 is captioned "Version With Markings To Show Changes Made."

Respectfully submitted,

Clifford W. Browning

Reg. No. 32,201

Woodard, Emhardt, Naughton,

Moriarty & McNett

Bank One Center/Tower

111 Monument Circle, Suite 3700

Indianapolis, Indiana 46204-5137

(317) 634-3456

## VERSION WITH MARKINGS TO SHOW CHANGES MADE

## Claims 3, 4, 5, 9, 10, and 13 have been amended as follows:

## [CLAIMS]

#### We claim:

- (Amended) Transmission process according to claims 1 [and]or 2, characterized in that
  these databases are integrated in Pay-TV reception subscriber's units and that the useful data
  comprise the reception rights of a subscriber.
- 4. (Amended) Transmission process according to claim[s] 1 [to 3], characterized in that these updating messages comprise a set of control-blocks comprising data and controls, and which consists in carrying out comparison operations between the data and the contents of the database and determine an action which consists, either to update the database, carry out the subsequent control block, or to jump to another control block, or to terminate the processing of the message.
- (Amended) Transmission process according to claim[s] 1 [to 3], characterized in that
  the database is divided or is of the relational type RDB.
- 9. (Amended) Transmission system of message according to claim[s] 6 [to 8], characterized in that these updating messages comprise control-blocks comprising data and of controls, said controls determining an action which consists, either to update the database, or to carry out the subsequent control block, or to jump to another control block, or to terminate the processing of the message.
- (Amended) Transmission system of message according to claim[s] 6 [to 9],
   characterized in that the database is divided or is of relational type RDB.

13. (Amended) [Improved] [1]Language interpreter evolved for database according to claim 12, characterized in that the database is connected to a Pay-TV subscriber module and that the action consists in returning a message towards the subscriber module for carrying out an action in said subscriber module.

20

25

10

# MESSAGES TRANSMISSION PROCESS AND SYSTEM FOR DATA BASES

The present invention concerns a process and system of database updating, in particular for a database with unidirectional access.

In a system comprising a managing centre having a main database, and a plurality of subscribers each one having a subscriber's database over a wide territory, it is known to send data by phone or hertz route to update the database of these subscribers. These messages address, either to all the subscribers, or to a particular subscriber, that is to say, that they contain a subscribed module address.

As some systems of this type do not use return path towards the managing centre such as by modem for example, it is difficult to know if the sent data have arrived correctly. In this way, it is obliged to repeat these messages periodically in order to ensure that the message has arrived property at destination at least once.

One can easily imagine what the consequence is in a system managing a large number of subscribers, for example 2 to 3 million, the repetition of these messages being able to saturate rapidly the transmission capacity.

In a system of this type, the transmission channel is used more for transmission of useful data such as audio, video or data and managing data, for subscriber databases, and can occupy only a very limited bandwidth.

Such a system is described in the European patent EP 0 616 714, and treats the problem of the updating of a database defined in a smart card. The controls are of simple type and are all destined to enter data in this database. Even if this structure has an advantage on the previous solutions, that is to say based on a structure fixed by the supplier of the software, it do not permit the personalization or special processing.

Another example of the limits of the existing addressing is disclosed in EP 0 491 069. Each database includes a single identifier used to address this database. Thus, when a large number of databases must be updated, they must be addressed sequentially.

25

5

One realizes that one is rapidly limited if one wants to use more sophisticated functions, for example to offer one month of free subscription for a new channel to all the subscribers having subscribed for at least one year. In such a case, according to the present transmission technique, one determines on the main database in the managing centre, the list of subscribers answering this criterion, and one formats and then sends on the network a message to each chosen subscriber, a message containing the address of the addressee.

One must not forget that these messages must be repeated periodically to assure that each subscriber has the possibility to receive it.

At present, such functions are not easily possible because they can completely saturate the system with the transmission of managing messages. The specific addressing is therefore used for initialising a subscriber or to update the same, following a call to the management centre.

When one considers the subscriber databases according to the prior art, one can see that these databases contain only information allowing the access to transmissions broadcasted. Said information or data called "systems" such as the subscriber number, are memorized independently. It is based on these data-systems that one determines if a message is addressed to the considered database. No request inside of the database is made, the test using only the systems information.

The aim of the present invention is to propose a process, which allows the transmission of messages which address to a previously non-defined subscriber's group.

This aim is fully reached by a process of transmission of messages of updating database between a managing centre and a plurality of shared database, each database comprising data-systems and useful data. According to the process of the invention, these messages comprise data and controls which condition the updating of a database according to one or more data either present or not in the said database and representing the useful data.

25

30

5

10

By useful data, the data to which the database has been provided is meant, on the contrary to data-systems, which define the structure of the base and allow to define its address or identifier.

When starting the service of such a database, this does not contain in principle any useful data while all the data-systems are defined.

According to the invention, this process allows to carry out complex operations directly on the useful data of each subscriber's base in order to determine if such transmitted data is addressed to this database.

Within the aforementioned example, the data related to the access authorization to the new channel are conditioned to a request on the contents of the base, in particular the date of the subscription of the referred subscription. Thus, the operations carried out in the managing centre determine the subscribers benefiting from the promotional offer, are carried out in the same way on the level of the database of each subscriber.

Due to this process, a subscriber's group not defined in advance (for example 120'000 football fans) can take advantage of a new sports channel (for example for a test period) by sending a single control message on the network. Previously, it would have been necessary to send 120.000 control messages on the network, a control message for each beneficiary subscriber.

20 The requests carried out by this control language can be simple, for example the subscription date of a subscription submission, or complex, for example a selection operation on several criteria.

It is known in Pay-TV systems to offer the possibility to buy the shows such as recent films or the transmission of a football match. The user, owing to the function "pay-per-view" debits his account to the video access supplier for visualization of his favourite transmission.

The database memorizes the transmissions bought for statistical purposes (for example financial) or for further consultation by the subscriber. Due to the process according to the invention, it is possible to propose a reduction, for example of 50%, on the purchase of the next transmission of the same type. This offer is contained in

30

5

10

a message, which includes a complex request since it first extracts from the data of database relating to the transmissions bought previously, to carry out the necessary verifications and, according to the result of the verification, to enter in the base the information related to this new offer. All these operations are contained in a single message.

In order to express this kind of message, a new message format is proposed in the frame of this invention that allows the transmission of complex controls. One can easily imagine that the transmission of a control cannot easily contain the request such as described previously. This is why a message containing a set of control blocks is proposed, each control block processing a single request and, according to the result, being able to decide the following sequence.

According to this form of message construction, a control block includes a request on the database allowing the use of several data contained in the database, a data or comparison data and an action according to the result of these comparisons.

According to the comparison result, by action, either the stop of the processing of the message (stop function), or the processing of the subsequent control block (continuous function) or the execution of the X block (jump function) is meant.

It is possible, owing to this structure, to carry out complex functions developed in a single message.

The present invention concerns also a formatting system of managing messages, preferably in evolved language such as SQL, and a transmission system of messages comprising a managing centre with its main database and a plurality of subscriber units, each unit comprising a database, the managing centre transmitting messages comprising data and controls, these latter conditioning the updating of the database according to one or more criteria bound to the contents of the database. The system according to the invention transmits messages comprising requests which condition the updating of the database. This system uses the above described process.

This invention concerns also a language interpreter evolved for database designed to receive conditional updating messages, to carry out comparison operations on one

30

5

10

or more criteria contained in the database and to update the database according to the result of the comparison.

The subscriber's module includes schematically a data receiver, either audio, video or numerical, a decoder able to separate the data of managing messages, these latter being directed towards a security module comprising the subscriber's database. In an embodiment, this module is directly installed in the subscriber module or, for security and cost reasons, this module is under the form of a detachable smart card. The subscriber database, similarly to the interpreter is located on this smart card. The interpreter receives from the decoder the managing messages serving to define the different rights connected to the service or emission providers.

The interpreter according to prior art has the task of organization and updating of the database. It receives the updating controls and determines the location where to store this information. An example of such an interpreter is described in EP 0 616 714. The interpreter according to the invention, not only organizes the database, but carries out also the request operations on said base in order to verify the updating conditions, and, if the format of the message is of the multiple control-blocks type, carries out the condition attached to this comparison which by memory allows, either to terminate the carrying out of the message, or to proceed with the subsequent block or jump to a certain block.

This kind of interpreter can be used as segmented database-manager or as a relational-type base. By segmented type base, a base for which one creates a sector by supplier of service and where one stores the rights related to this supplier in this section, is meant. By relational database, a base in which the information or data are stored in a certain place, only the link allowing to find them being connected to the describer of the related supplier, is meant. One can see that this kind of interpreter is not attributable to the kind of base and can apply to any base-structure.

In a particular form of the invention, the requests defining the conditional updating base on the single number of subscribers, the number pertaining to a group, for example the postal code, or the subscribed subscription.

10

According to an aspect of the invention, all the parameters of said systems are stored in the database.

An advantage of this kind of message is to suppress the repeating effects. In fact, we have seen that the controls are sent several times to ensure that they have been properly received by the subscriber unit. In this case, according to the prior art, an updating will be carried out many times, unnecessary using the processing capacities of the database interpreter. To avoid this, it is sufficient to add a condition in order that the updating will be carried out if it has not still been made.

Another advantage of this invention is to be able to proceed to verifications of the subscriber database by sending messages having the task to carry out a certain number of operations on the data of this subscriber, and when the result differs to that expected, an action can be ordered.

In a particular embodiment of the invention, the result of the request can cause a notification of the security module towards the subscriber module, to carry out an action. By action is meant, for example, a notice of a message on the display, a ringing or more generally a sound signal, or even the formation of a phone call on a modem connected to the public phone network.

#### CLAIMS

- Transmission process of messages of updating database between a
  managing centre and a plurality of shared databases, each database comprising
  data-systems and useful data, characterized in that these messages comprise data
  and controls which condition the updating of a database according to one or more
  useful data present or not in the said database.
- Transmission process according to claim 1, characterized in that the connection between the managing centre and the databases is mainly unidirectional.
- Transmission process according to claims 1 and 2, characterized in that these databases are integrated in Pay-TV reception subscriber's units and that the useful data comprise the reception rights of a subscriber.
- 4. Transmission process according to claims 1 to 3, characterized in that these updating messages comprise a set of control-blocks comprising data and controls, and which consists in carrying out comparison operations between the data and the contents of the database and determine an action which consists, either to update the database, carry out the subsequent control block, or to jump to another control block, or to terminate the processing of the message.
- 5. Transmission process according to claims 1 to 4, characterized in that the database is of segmented type or is of the relational type RDB.
- 6. Transmission system of message comprising a managing centre and a plurality of shared databases, each database comprising data-systems and useful data, characterized in that these messages comprise data and controls which condition the updating of a database according to one or more useful data either present or not in said database.
- Transmission system of message according to claim 6, characterized in that the transmission between the managing centre and the databases is unidirectional.
- Transmission system of message according to claim 6, characterized in that
  these databases are integrated in Pay-TV reception subscriber's units and that the
  useful data comprise the reception rights of a subscriber.

- 9. Transmission system of message according to claims 6 to 8, characterized in that these updating messages comprise control-blocks comprising data and controls, said controls determining an action which consists, either to update the database, or to carry out the subsequent control block, or to jump to another control block, or to terminate the processing of the message.
- 10. Transmission system of message according to claims 6 to 9, characterized in that the database is of segmented type or is of the relational type RDB.
- 11. Improved language interpreter for database processing a database in an environment using a managing centre and a plurality of shared subscriber's databases, each database comprising data-systems and useful data, this interpreter receiving updating messages, characterized in that it is designed to receive conditional updating messages, to carry out comparison operations on one or more useful data either present or not in the database and to update the database according to the result of these comparisons.
- 12. Improved language interpreter according to claim 11, characterized in that these updating messages comprise control blocks comprising data and controls, that carries out comparison operations between the data and the contents of the database and determines an action which consists, either to update the database, carry out the subsequent block or jump to another control block, or to terminate the processing of said message.
- 13. Improved language interpreter according to claim 12, characterized in that the database is connected to a Pay-TV subscriber module and that the action consists in returning a message towards the subscriber module for carrying out an action in said subscriber module.

## ABSTRACT

For updating shared databases on a subscriber network, a managing centre sends messages addressed to each of these bases. When one requires to address a great number of databases, the time to accede to each of them increases considerably considered the necessity to repeat the information to ensure the good reception of messages. Instead of addressing by name each database, it is proposed to transmit criteria in which a certain number of databases recognize themselves and apply a selective updating on these bases.

# DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Docket No.	16673-6

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

#### MESSAGES TRANSMISSION PROCESS AND SYSTEM FOR DATA BASES

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at lease one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) on which priority is claimed:

Prior Foreign/PCT Application(s)

Priority Claimed

1660/99

CH

10 September 1999

(Application No.)

(Country/PCT)

(Day/Month/Year Filed)

Yes

No

I hereby claim the benefit under Title 35, United States code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filling date of the prior application(s) and the national or PCT international filling date of this application:

	Prior U.S./PCT Applications:			
	(U.S. Application Serial No.)	(U.S.	Filing Date)	(Status-patented/pending/abandoned)
	(PCT Application No.) (U.S. F		(U.S. Serial No. Assigned, if any	(Status-patented/pending/abandoned)
	statements made on informat statements were made with the are punishable by fine or impor-	ion a e kno risonr willfu	nd belief are bel wledge that will nent, or both, un il false statemer	my own knowledge are true and that all lieved to be true; and further that these ful false statements and the like so made der Section 1001 of Title 18 of the United tts may jeopardize the validity of the
_	and/or agent(s) to prosecute Trademark Office connected t No. 18,483; Joseph A. Naughto No. 25, 533: Thomas Q. Henry, No. 28,750; Vincent O. Wagne 30,821; William F. Bahret, No.	this a herev on Jr., No. er, No. 31.08	pplication and t vith: Harold R. No. <u>19,814; John</u> 28,309; James M. 5. <u>29,596; Steve Z</u> Clifford W. Bro	hereby appoint the following attorney(s) of transact all business in the Patent and Woodard, No. 16214: C. David Emhardt, V. Moriarty, No. 26,207; John C. McNett, Durlacher, No. 28,840; Charles R. Reeves, Latos, No. 30,123; Spiro Bereveskos, No. owning, No. 32,201; R. Randall Frisk, No. eck, No. 32,722; and Kenneth A. Gandy,
	Address all telephone calls to: Address all correspondence to	Clin WC Bar 111	fford W. Brownir	DT, NAUGHTON, MORIARTY & MCNETT ower le, Suite 3700
	Full name of sole or first inve	ntor:		
1	100		Olivier BRIQU	JE_
	Inventor's Signature:			Date: January 24th2002
	Residence Post de	٠		
		ia Cio	cnatte 5, 1052 Le	Mont-sur-Lausanne
	Country of Citizenship		Switzerland	
	Post Office Address			

22, route de Genève, CH-1033 Cheseaux-sur-Lausanne

)	Christophe NICOLAS	-
Inventor's Signature:	Tuolus	Date: January 24th 2002
Residence	Rue de Lausanne 59, 1028 Préverer	ages
Country of Citizenship	Switzerland	
D + O(f) + 11		
Post Office Address 22, Full name of third joint	route de Genève, CH-1033 Cheseaux-su inventor, if any: Marco SASSELLI	r-Lausanne
22,	inventor, if any:	r-Lausanne 
22,	inventor, if any:	Date: January 24 <sup>th</sup> 2002

#82459 .